

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) An isolated and substantially purified DNA sequence comprising SEQ ID NO:3, wherein SEQ ID NO:3 containing includes at least one variation selected from the group consisting of:

- a T at nucleotide base number 4121 of SEQ ID NO:3;
- a C at nucleotide base number 4621 of SEQ ID NO:3;
- a T at nucleotide base number 4970 of SEQ ID NO:3;
- a C at nucleotide base number 11056 of SEQ ID NO:3; and
- a T at nucleotide base number 12145 of SEQ ID NO:3,

or contiguous portions thereof a fragment of SEQ ID NO:3, wherein said fragment includes at least one of said variations and is at least 20 nucleotides in length.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Previously presented) A hybridization probe comprising the DNA sequence of claim 1 and a detectable label.

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Currently amended) ~~An expression system A host cell comprising a vector, wherein said vector further comprises~~ a DNA sequence that corresponds to SEQ ID NO: 3, ~~wherein said expression system comprises a recombinant host cell transformed or transfected with said DNA sequence.~~

19. (Cancelled)

20. (Currently amended) The ~~expression system host cell~~ of claim 18, wherein said DNA sequence includes one or more of the variations selected from the group consisting of:

a T at nucleotide base number 4121 of SEQ ID NO:3;

a C at nucleotide base number 4621 of SEQ ID NO:3;

a T at nucleotide base number 4970 of SEQ ID NO:3;

a C at nucleotide base number 11056 of SEQ ID NO:3; and

a T at nucleotide base number 12145 of SEQ ID NO:3,

or ~~contiguous portions thereof a fragment of said DNA sequence that includes one or more of said variations and is at least 20 nucleotides in length.~~

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Currently amended) A DNA sequence that is one hundred percent complementary to the DNA sequence of Claim 1.